

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 03-328097 (71)Applicant : KURARAY CO LTD

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(54) FILM, MULTILAYER FILM, PACKAGING MATERIAL AND PACKAGED MATERIAL

(57)Abstract:

PURPOSE: To provide the subject product composed of a resin composition containing an ethylene-vinyl alcohol copolymer and an inorganic filler, having a specific property and enabling the boiling sterilization without causing the deterioration of the appearance and the gas-barrierness of the packaging material.

CONSTITUTION: The objective film is composed of a layer of a composition containing (A) 50-95wt.% of an ethylene-vinyl alcohol copolymer and (B) 50-5wt.% of an inorganic filler. The component A in the layer contains a number of regions containing two-dimensional thin layers of the component B laminated parallel to the plane of the composition layer. The flake diameter of the component B in the region is $\leq 30\mu\text{m}$ and the weight-average aspect ratio is ≥ 3 . The moisture-permeability of the composition layer satisfies the formula [W is moisture permeability ($\text{g} \cdot 30\mu\text{m}^2 \cdot \text{day}$) at 40°C and relative humidity difference of 90%; E is ethylene content (mol%) of the component A; $A_0=1.105 \times 10^3$; $A_1=-8.15 \times 10$; $A_2=2.42$; $A_3=-3.535 \times 10^{-2}$; $A_4=2.53 \times 10^{-4}$; $A_5=-7.091 \times 10^{-7}$] and the dimensional change of the layer is -2.5 to +2.5% (after treatment in air at $T_m -40^\circ\text{C}$ for 60min).

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